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Please amend Claims 33-45, 47, and 49-54 as follows:

--33. (Once Amended) A system configured to [adapt] control a speed of a rotating electric machine [in said system], comprising:

a flux generation mechanism configured to generate a stator flux and an air gap flux of the rotating electric machine during operation of the rotating electric machine, the stator flux and the air gap flux providing a flux having at least two vectorial quantities, wherein

[a stator and air gap, in which flux is generated, said flux being composed of at least two vectorial quantities for said rotating electric machine during an operation of said rotating electric machine; and]

the rotating electric machine includes at least two electric windings that respectively generate said stator flux and said air gap flux, [wherein] said at least two electric windings including

an electric conductor,

a first semiconducting layer configured to surround said electric conductor,

an insulating layer configured to surround said first semiconducting layer, and

a second semiconducting layer configured to surround said insulating layer,

and

[wherein] said rotating electric machine [being] is configured to be directly connected to at least one of a distribution network and a transmission network.

34. (Once Amended) The system according to claim 33, wherein a potential of said first semiconducting layer [being] is substantially equal to a potential of said electric conductor.

35. (Once Amended) The system according to claim 33, wherein said second semiconducting layer [being] is configured to form a substantially equipotential surface surrounding said electric conductor.

36. (Once Amended) The system according to claim 35, wherein said second semiconducting layer [being] is connected to a node at a predetermined potential.

37. (Once Amended) The system according to claim 36, wherein said predetermined potential [being] is a ground potential.

38. (Once Amended) The system according to claim 33, wherein at least two adjacent layers of said at least two electric windings of said rotating electric machine [having a] have substantially identical [coefficient] coefficients of thermal expansion.

39. (Once Amended) The system according to claim 33, wherein said electric conductor further comprises a plurality of strands and at least two strands of said plurality of strands [being] are in electric contact with one another.

40. (Once Amended) The system according to claim 33, wherein said first semiconducting layer, said insulating layer, and said second semiconducting layer [being] are secured to at least one adjacent layer selected from a set of said first semiconducting layer, said second insulating layer, and said second semiconducting layer along a substantially whole contact surface.

41. (Once Amended) A system configured to [adapt] control a speed of a rotating electric machine, [in said system, wherein said rotating electric machine being directly connected to at least one of a distribution network and a transmission network, said system] comprising:

a flux generation mechanism configured to generate a stator flux and an air gap flux of the rotating electric machine during operation of the rotating electric machine, the stator flux and the air gap flux providing a flux having at least two vectorial quantities, wherein

[a stator and air gap, in which flux is generated, said flux having at least two vectorial quantities; and]

the rotating electric machine includes at least two electric windings of a high-voltage cable that respectively generate said stator flux and said air gap flux, said high-voltage cable[,] including

[a high-voltage cable, including,]

a current-carrying conductor comprised of a plurality of strands,

a first semiconducting layer arranged around said current-carrying conductor,

an insulating layer of a solid insulating material arranged around said first semiconducting layer, and

a second semiconducting layer arranged around the insulating layer, and

said rotating electric machine is configured to be directly connected to at least one of a distribution network and a transmission network.

42. (Once Amended) The system according to claim 41, wherein said high-voltage cable [being] is flexible.

43. (Once Amended) The system according to claim 42, wherein said first semiconducting layer, said insulating layer, and said second semiconducting layer [being] are arranged to adhere to at least one other layer selected from a set of said first semiconducting layer, said insulating layer, and said second semiconducting layer when said high-voltage cable is bent.

44. (Once Amended) The system according to claim 41, wherein said rotating electric machine comprises:

an extra winding arranged on a stator of said rotating electric machine; and  
a magnetization apparatus connected to said rotating electric machine;  
wherein a first flux vector of said at least two vectorial quantities [being] is generated  
via said extra winding and said magnetization apparatus and a second flux vector of said at  
least two vectorial quantities [being] is generated via said at least two electric windings.

45. (Once Amended) The system according to claim 44, wherein said magnetization  
apparatus [being] is a first frequency converter.

47. (Once Amended) The system according to claim 46, wherein:  
said rotating electric machine [being] is an asynchronous rotor; and  
said auxiliary feeder [comprising] includes a stator winding and a permanent magnet  
rotor connected to said asynchronous rotor.

49. (Once Amended) The system according to claim 33, wherein:  
said at least two electric windings [being] are flexible; and  
said first semiconducting layer, said insulating layer, and said second semiconducting  
layer [making] make contact with at least one neighboring layer selected from a set of said  
first semiconducting layer, said insulating layer, and said second semiconducting layer.

50. (Once Amended) The system according to claim 49, wherein said first  
semiconducting layer, said insulating layer, and said second semiconducting layer [being] are  
made of a plurality of materials with a plurality of elasticities and a plurality of coefficients of  
thermal expansion configured to absorb volume changes of said first semiconducting layer,  
said insulating layer, and said second semiconducting layer caused by a temperature variation  
during an operation such that said first semiconducting layer, said insulating layer, and said  
second semiconducting layer remain in contact with one another over an operational  
temperature range.

51. (Once Amended) The system according to claim 50, wherein the plurality of materials in said first semiconducting layer, said insulating layer, and said second semiconducting layer [having] have a plurality of high elasticities.

52. (Once Amended) The system according to claim 50, wherein said first semiconducting layer and said second semiconducting layer [being] are configured to form substantially equipotential surfaces.

53. (Once Amended) A method for speed control of a rotating electric machine configured to be directly connected to a distribution network, comprising:

generating at least two vectorial quantities which constitute a resultant flux of said rotating electric machine during an operation, wherein said rotating electric machine [having] has at least two electric windings, each winding generating a respective one of said at least two vectorial quantities and including

at least one electric conductor,

a first semiconducting layer arranged surrounding said electric conductor,

an insulating layer surrounding said first semiconducting layer, and

a second semiconducting layer arranged surrounding said insulating layer.

54. (Once Amended) A method for speed control of a rotating electric machine configured to be directly connected to a distribution network and having at least two electric windings formed from a high-voltage cable including at least one current-carrying conductor wherein said at least one current-carrying conductor [exhibits] includes a plurality of strands, a first semiconducting layer arranged around said at least one current-carrying conductor, an insulating layer made of a solid insulating material arranged around said first semiconducting layer, and a second semiconducting layer arranged around said insulating layer, said method comprising the step of:

generating at least two vectorial quantities that form a resultant flux of said rotating electric machine during an operation.

67. (Once Amended) A system configured to [adapt] control a speed of a rotating electric machine included in the system, comprising:

means for generating a flux composed of at least two vectorial quantities for said rotating electric machine during an operation of said rotating electric machine; and

at least two electric windings, wherein said at least two electric windings respectively generate said at least two vectorial quantities and include[;],

means for conducting electricity,

means for connecting a semiconductor to said means for conducting electricity,

means for insulating means for connecting, and

means for creating an equipotential surface around said means for insulating,

wherein said rotating electric machine [being] is configured to be directly connected to a distribution network.--